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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,525	02/15/2006	Mitsuhiro Kashiwabara	112857517	2922
	7590	EXAMINER		
P. O. BOX 113	5	BREVAL, ELMITO		
CHICAGO, IL	60690		ART UNIT	PAPER NUMBER
			2889	
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			02/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summany		Application	Application No. Applicant(s)					
		10/568,525	5	KASHIWABARA ET AL.				
Office Action Summary			Examiner		Art Unit			
			ELMITO BE		2889			
Period fo	The MAILING DATE of this commu or Reply	nication appe	ears on the	cover sheet with the d	correspondence a	ddress		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) file	ed on 09 Oc	tober 2008	•				
•		2b)⊠ This a						
3)		′—			osecution as to th	e merits is		
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
- 4)⊠	Claim(s) 1-14 is/are pending in the	application						
•	Claim(s) <u>1-14</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
'=	Claim(s) is/are allowed.							
·	☑ Claim(s) <u>1-5 and 7-14</u> is/are rejected.							
	Claim(s) <u>6</u> is/are objected to.	ation and/an	alastian va	i.a.a.a.a.t				
8)[Claim(s) are subject to restri	ction and/or	election re	quirement.				
Applicati	on Papers							
9)	The specification is objected to by th	ne Examiner	•					
10)🛛	The drawing(s) filed on <u><i>09 October :</i></u>	<u>2008</u> is/are:	a)⊠ acce∣	pted or b)□ objected	l to by the Examir	ner.		
	Applicant may not request that any object	ection to the d	Irawing(s) be	e held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including	g the correction	on is require	d if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).		
11)	The oath or declaration is objected t	o by the Exa	aminer. Not	e the attached Office	Action or form P	TO-152.		
Priority ເ	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date			4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

DETAILED ACTION

The amendment filed on 10/09/2008 has been entered.

Claims 1-14 are pending.

The previous rejections have been withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, and 7-10, 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al., (JP: 10-003990) of record by the applicant in view of Forrest et al., "White-light-emitting organic electroluminescent devices based on interlayer sequential energy transfer", APPLIED PHYSICS LETTERS, Vol. 75, No. 7, 16 August 1999. The examiner is using the English translation of the Japanese reference of record by the examiner

Regarding claim 1, Nakamura ('990) teaches (in at least fig. 1 and corresponding paragraphs) an organic EL device comprising an anode (20), a cathode (40), and an organic layer (30) including a plurality of light emitting layers provided between the anode (20) and the cathode (40), wherein the light emitting layers comprise a red light emitting layer (33), a green light emitting layer (32) provided directly on the red light emitting layer (33), and a blue light emitting layer (31) provided directly on the green light emitting layer (31).

However, Nakamura ('990) does not teach the red light emitting layer is formed on the anode.

Further regarding claim 1, Forrest in the same field of endeavor teaches (in at least fig. 1 of page 889; 1st paragraph) an OLED device comprised of, in part, a red light emitting layer formed on the anode side in order to improve the luminance efficiency of the device.

Hence, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the red light emitting layer structure of Forrest in the device of Nakamura in order to improve the luminance efficiency of the device.

Regarding claim 2, Nakamura/Forrest teach the red light emitting layer has a hole transporting property (see Forrest page 889, 1st paragraph).

Regarding claim 3, Nakamura/Forrest teach (Nakamura [0006]-[0018]) the red light emitting layer includes a hole transporting property (also Forrest page 889, 1st paragraph).

Regarding claim 4, Nakamura ('990) teaches ([0006]-[0018]) the green light emitting layer has a positive and negative charge transporting property.

Regarding claim 5, Nakamura ('990) teaches the blue light emitting layer has an electron transporting property.

Regarding claim 7, Nakamura ('990) teaches ([0008]-[0017]) the red light emitting layer has a hole transporting property, the green light emitting layer has a positive and a negative transporting property, and the blue light emitting layer has an electron transporting property.

Regarding claim 8, Nakamura ('990) teaches (in at least fig. 1) a display device comprising a color filter ([0010]; [0012]) provided on a light take-out surface side of an organic EL device for emitting white light, wherein the organic EL device comprises an organic layer (30) including a plurality of light emitting layers, the organic layer interposed between the anode (20) and the cathode (40); and the light emitting layers comprise a red light emitting layer (33), a green light emitting layer (32), and a blue light emitting layer (31) laminated in respective order.

However, Nakamura ('990) does not teach the red light emitting layer is formed on the anode.

Further regarding claim 8, Forrest in the same field of endeavor teaches (in at least fig. 1 of page 889; 1st paragraph) an OLED device comprised of, in part, a red light emitting layer formed on the anode side in order to improve the luminance efficiency of the device.

Hence, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the red light emitting layer structure of Forrest in the device of Nakamura in order to improve the luminance efficiency of the device.

Regarding claim 9, Nakamura/Forrest teaches (in fig. 1) the red light emitting layer (33) is composed of a single layer.

Regarding claim 10, Nakamura/Forrest teach (in fig. 1) the green light emitting layer (32) is composed of a single layer.

Regarding claim 12, Nakamura/Forrest teach ([0006]-[0012]) the red light emitting layer supplies holes to the green light emitting layer.

Regarding claim 13, Nakamura ('990) teaches ([0006]-[0014]) the blue light emitting layer supplies electrons to the green light emitting layer.

Regarding claim 14, Nakamura ('990) teaches (in fig. 1) an organic EL device comprising an anode (20), a cathode (40), and an organic layer (30) including plurality of light emitting layers provided between the anode (20) and the cathode (40), wherein said light emitting layers comprises a red light emitting layer (33), a green light emitting layer (32) provided directly on the red light emitting layer (35), and a blue light emitting layer (31) provided directly on the green light emitting layer (32), wherein each of the red light emitting layer (33) and green light emitting layer (32) is composed of a single layer.

However, Nakamura ('990) does not teach the red light emitting layer is formed on the anode.

Further regarding claim 14, Forrest in the same field of endeavor teaches (in at least fig. 1 of page 889; 1st paragraph) an OLED device comprised of, in part, a red light emitting layer formed on the anode side in order to improve the luminance efficiency of the device.

Hence, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the red light emitting layer structure of Forrest in the device of Nakamura in order to improve the luminance efficiency of the device.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura et al., (JP: 10-003990) in view of Forrest et al., "White-light-emitting organic electroluminescent devices based on interlayer sequential energy transfer", APPLIED

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PHYSICS LETTERS, Vol. 75, No. 7, 16 August 1999 in further view of Suzuki et al., (US. Pat: 6,198,217) of record by the examiner.

Regarding claim 11, Nakamura/Forrest teach all the claimed limitations except for a protective film covering the organic layer.

Further regarding claim 11, Suzuki ('217) teaches an organic El device comprised of, in part, a protective layer (P of fig. 1; col. 2, line 60) covering the organic layer for the purpose of protecting the device against moisture.

Hence, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the protective layer of Suzuki into the device of Nakamura for the purpose of protecting the device against moisture.

Allowable Subject Matter

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 6, the prior art of record neither teaches nor suggests the claimed limitations as set forth in claim 6, especially the limitation a blue light emitting layer comprises a positive and negative charge transporting blue light emitting layer and an electron transmitting blue light emitting layer laminated in this order from the anode side.

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Response to Arguments

Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ricks et al., (US. Pub: 2005/023,3166) teaches an OLED device with a red light emitting layer forms on the anode side.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELMITO BREVAL whose telephone number is (571)270-3099. The examiner can normally be reached on M-F (8:30 AM-5:00 Pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Toan Ton can be reached on (571)-272-2303. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 29, 2009 /Elmito Breval/ Examiner, Art Unit 2889

/Joseph L. Williams/ Primary Examiner, Art Unit 2889